IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Joseph Herceg, James Saiveau, Lubomir Kratjl

Serial No.:

10/637,088

Art Unit:

1753

Filed:

08/05/2003

Examiner:

Title:

CONTINUOUS PROCESS ELECTROREFINER

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

31970

Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

The citations listed on the accompanying form PTO 1449 are submitted in compliance with the duty of disclosure as defined in 37 CFR 1.56 and 1.97.

- U.S. Patent No. 5,650,053 awarded to Gay, et al. on July 22, 1997 discloses a process and device for the electrorefining of spent metallic nuclear fuels. The device has parallel electrodes with anode baskets rotating within a cylindrical cathode.
- U.S. Patents Nos. 5,531,868 and 5,443,705 awarded to Miller, et al. on July 2, 1996, and on August 22, 1995, respectively, disclose processes and devices for the electrorefining of uranium and plutonium.
- U.S. Patent No. 5,372,794 awarded to LeMaire, et al. on December 13, 1994 discloses a process for separation of actinides from aqueous solutions.
- U.S. Patent No. 5,132,092 awarded to Musikas on July 21, 1992 discloses an aqueous process for the extraction of uranium (VI) and plutonium (IV).
- U.S. Patent No. 5,085,834 awarded to LeMaire, et al. on February 4, 1992 discloses an aqueous method for separating plutonium from uranium and from fission products.
- U.S. Patent No. 5,009,752 awarded to Tomczuk, et al. on April 23, 1991 discloses a process and device for the electrorefinement of spent metallic nuclear fuel in the form of steel-

clad metal pins containing 90% uranium and 10% zirconium (Zr).

U.S. Patent No. 4,740,359 awarded to Hadi Ali, et al. on April 26,1988 discloses an

organic-aqueous process for recovering uranium values.

U.S. Patent No. 4,399,108 awarded to Krikorian et al. on August 16, 1983 discloses a

carbothermic reduction method for the recovery of actinides.

U.S. Patent No. 4,297,174 awarded to Brambilla on October 27, 1981 discloses a

pyroelectrochemical process for reprocessing irradiated nuclear fuels. The process involves

dissolving fuel to be reprocessed in a fused-salt bath.

U.S. Patent No. 4,092,397 awarded to Brambilla, et al. on May 30, 1978 discloses a

method for the pyrochemical separation of plutonium from irradiated nuclear fuels, by thermal

decomposition in molten nitrates.

U.S. Patent No. 3,981,960 awarded to Brambilla, et al. on September 21, 1976 discloses

a reprocessing method of ceramic nuclear fuel in low-melting nitrate molten salts.

This disclosure submission is not to be construed as a representation that a search has

been made, that additional matter material to the examination of this application does not exist,

or that any one or more of these citations constitutes prior art under 35 USC 102.

Respectfully submitted,

Attorney for/Applicants

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Telephone No. (630) 252-2179

Date 19 11, 1 2003

Attachments: As Stated

PTO/SB/08A (02-03) Approved for use through 04/30/2003. OMB 0651-0031

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Substitute for form 1449/PTO

Complete if Known

Application Number

Filing Date

First Named Inventor Herceg, et al.

Art Unit

Examiner Name

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) Examiner Name

Sheet of Attorney Docket Number S-100,120

U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant				
IIIIuais	140.	Number-Kind Code ^{2 (# known)}	WW-DO-1111	Applicant of Oilea Bocarient	Figures Appear				
	1	us- 5,650,053	07-22-1997	Gay, et al.					
		us- 5,531,868		Miller, et al.					
		us-5,443,705	08-22-1995	Miller, et al.					
		us- 5,372,794		LeMaire, et al.					
		^{US-} 5,132,092	07-21-1992	Musikas, et al.					
		us- 5.085.834	· I	LeMaire, et al.					
		^{us-} 5,009,752		Tomczuk, et al.					
		us-4,740,359	04-26-1988	Hadi Ali, et al.					
		^{US-} 4,399,108	08-16-1983	Krikorian, et al.					
		us-4,297,174	10-27-1981	Brambilla, et al.					
		us-4,092,397	05-30-1978	Brambilla, et al.					
		^{us-} 3,981,960	09-21-1976	Brambilla, et al.					
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	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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